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		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L11	L10 and (95% adj void)	1
<input type="checkbox"/>	L10	L8 and DNA	43
<input type="checkbox"/>	L9	L8 and foam	7
<input type="checkbox"/>	L8	L7 and particulate	57
<input type="checkbox"/>	L7	L6 and (controlled adj release)	225
<input type="checkbox"/>	L6	mucoadhesive and vaccine	317
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<input type="checkbox"/>	L4	L2 and encapsulated	47
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Search Results - Record(s) 1 through 7 of 7 returned.

☐ 1. Document ID: US 20040151774 A1

L9: Entry 1 of 7

File: PGPB

Aug 5, 2004

PGPUB-DOCUMENT-NUMBER: 20040151774

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040151774 A1

TITLE: Therapeutic compositions for drug delivery to and through covering epithelia

PUBLICATION-DATE: August 5, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Pauletti, Giovanni M.	Loveland	OH	US
Desai, Kishorkumar J.	Westchester	OH	US
Roweton, Susan L.	Raleigh	NC	US
Harrison, Donald C.	Cincinnati	OH	US
Sanders, Lynda M.	Los Altos	CA	US

US-CL-CURRENT: [424/486](#); [424/488](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 2. Document ID: US 20040013688 A1

L9: Entry 2 of 7

File: PGPB

Jan 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040013688

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040013688 A1

TITLE: Vaccines to induce mucosal immunity

PUBLICATION-DATE: January 22, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wise, Donald L.	Belmont	MA	US
Trantolo, Debra J.	Princeton	MA	US
Hile, David D.	Medford	MA	US
Doherty, Stephen A.	Newmarket	NH	US

US-CL-CURRENT: [424/190.1](#); [424/191.1](#), [424/490](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 3. Document ID: US 20030134811 A1

L9: Entry 3 of 7

File: PGPB

Jul 17, 2003

PGPUB-DOCUMENT-NUMBER: 20030134811

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030134811 A1

TITLE: Methods and compositions comprising hydroxyapatite useful for the administration of therapeutic agents

PUBLICATION-DATE: July 17, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Jackson, John	Vancouver		CA
Springate, Christopher	Vancouver		CA
Wong, Wesley	Vancouver		CA
Burt, Helen M.	Vancouver		CA

US-CL-CURRENT: [514/44](#); [514/251](#), [514/449](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 4. Document ID: US 20030134810 A1

L9: Entry 4 of 7

File: PGPB

Jul 17, 2003

PGPUB-DOCUMENT-NUMBER: 20030134810

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030134810 A1

TITLE: Methods and compositions comprising biocompatible materials useful for the administration of therapeutic agents

PUBLICATION-DATE: July 17, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Springate, Chris	Vancouver		CA
Jackson, John K.	Vancouver		CA
Winternitz, Charles	Delta		CA
Burt, Helen M.	Vancouver		CA

US-CL-CURRENT: [514/44](#); [514/55](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Desc	Image
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☐ 5. Document ID: US 20020142042 A1

L9: Entry 5 of 7

File: PGPB

Oct 3, 2002

PGPUB-DOCUMENT-NUMBER: 20020142042
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020142042 A1

TITLE: pH-sensitive mucoadhesive film-forming gels and wax-film composites suitable for topical and mucosal delivery of molecules

PUBLICATION-DATE: October 3, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Mumper, Russell	Lexington	KY	US
Jay, Michael	Lexington	KY	US

US-CL-CURRENT: 424/487

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw Desc	Image
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☐ 6. Document ID: US 20020132008 A1

L9: Entry 6 of 7

File: PGPB

Sep 19, 2002

PGPUB-DOCUMENT-NUMBER: 20020132008
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020132008 A1

TITLE: pH-sensitive mucoadhesive film-forming gels and wax-film composites suitable for topical and mucosal delivery of molecules

PUBLICATION-DATE: September 19, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Mumper, Russell	Lexington	KY	US
Jay, Michael	Lexington	KY	US

US-CL-CURRENT: 424/487

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw Desc	Image
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☐ 7. Document ID: US 6506411 B2

L9: Entry 7 of 7

File: USPT

Jan 14, 2003

US-PAT-NO: 6506411
DOCUMENT-IDENTIFIER: US 6506411 B2

TITLE: Anti-angiogenic compositions and methods of use

DATE-ISSUED: January 14, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hunter; William L.	Vancouver			CA

Machan; Lindsay S.
Arsenault; A. Larry

Vancouver
Paris

CA
CA

US-CL-CURRENT: 424/501; 424/502

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KAMC	Draw Desc	Image
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☐ 1. Document ID: US 20040013688 A1

L11: Entry 1 of 1

File: PGPB

Jan 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040013688

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040013688 A1

TITLE: Vaccines to induce mucosal immunity

PUBLICATION-DATE: January 22, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wise, Donald L.	Belmont	MA	US
Trantolo, Debra J.	Princeton	MA	US
Hile, David D.	Medford	MA	US
Doherty, Stephen A.	Newmarket	NH	US

US-CL-CURRENT: 424/190.1; 424/191.1, 424/490

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw Desc	Image
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☐ 1. Document ID: US 20050106157 A1

L5: Entry 1 of 11

File: PGPB

May 19, 2005

PGPUB-DOCUMENT-NUMBER: 20050106157

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050106157 A1

TITLE: Immunogenic formulations comprising oil bodies

PUBLICATION-DATE: May 19, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Deckers, Harm M.	Calgary		CA
Rooijen, Gijs Van	Calgary		CA
Boothe, Joseph	Calgary		CA
Goll, Janis	Calgary		CA
Moloney, Maurice M.	Calgary		CA
Schryvers, Anthony B.	Calgary		CA
Alcantara, Joenel	Calgary		CA
Hutchins, Wendy A.	Calgary		CA

US-CL-CURRENT: [424/184.1](#); [435/325](#), [435/458](#), [435/69.3](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw Desc	Image
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☐ 2. Document ID: US 20040081654 A1

L5: Entry 2 of 11

File: PGPB

Apr 29, 2004

PGPUB-DOCUMENT-NUMBER: 20040081654

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040081654 A1

TITLE: Use of plant oil-bodies in vaccine delivery systems

PUBLICATION-DATE: April 29, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Schryvers, Anthony B	Alberta		CA
Hutchins, Wendy A	Alberta		CA
Moloney, Maurice M	Alberta		CA
Alcantra, Joenel	Calgary		CA

US-CL-CURRENT: 424/184.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 3. Document ID: US 20040071780 A1

L5: Entry 3 of 11

File: PGPB

Apr 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040071780

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040071780 A1

TITLE: PACE-A microspheres for delivery of antigens

PUBLICATION-DATE: April 15, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Lillard, James W.	Stone Mountain	GA	US
Palaniappan, Ravichandran	Atlanta	GA	US
Koritala, Panduranga Rao	Naperville	IL	US

US-CL-CURRENT: 424/489; 264/4, 424/184.1, 514/2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 4. Document ID: US 20040071715 A1

L5: Entry 4 of 11

File: PGPB

Apr 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040071715

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040071715 A1

TITLE: Polymer compositions that stabilize and control the release of formaldehyde-treated vaccine antigens

PUBLICATION-DATE: April 15, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Schwendeman, Steven P.	Ann Arbor	MI	US
Jiang, Wenlei	Bridgewater	NJ	US

US-CL-CURRENT: 424/184.1; 424/486

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw Desc	Image
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☐ 5. Document ID: US 20030161889 A1

L5: Entry 5 of 11

File: PGPB

Aug 28, 2003

PGPUB-DOCUMENT-NUMBER: 20030161889

PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030161889 A1

TITLE: Vaccines against diseases caused by enteropathogenic organisms using antigens
encapsulated within biodegradable-biocompatible microspheres

PUBLICATION-DATE: August 28, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Reid, Robert H.	Kensington	MD	US
Setterstrom, Jean A.	Alpharetta	GA	US
Boedeker, Edgar	Crownsville	MD	US
VanHamont, John	Fort Meade	MD	US
McQueen, Charles	Olney	MD	US
Cassels, Frederick	Ellicott City	MD	US

US-CL-CURRENT: 424/491; 424/184.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw Desc	Image
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☐ 6. Document ID: US 20020071846 A1

L5: Entry 6 of 11

File: PGPB

Jun 13, 2002

PGPUB-DOCUMENT-NUMBER: 20020071846
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020071846 A1

TITLE: Vaccines comprising oil bodies

PUBLICATION-DATE: June 13, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Deckers, Harm M.	Alberta		CA
Rooijen, Gijs Van	Alberta		CA
Boothe, Joseph	Alberta		CA
Goll, Janis	Alberta		CA
Moloney, Maurice M.	Alberta		CA
Schryvers, Anthony B.	Alberta		CA
Alcantara, Joenel	Alberta		CA
Hutchins, Wendy A.	Alberta		CA

US-CL-CURRENT: 424/184.1; 424/731, 424/750, 424/755, 424/757, 424/758, 424/764, 424/768

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw Desc	Image
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☐ 7. Document ID: US 7037499 B1

L5: Entry 7 of 11

File: USPT

May 2, 2006

US-PAT-NO: 7037499

DOCUMENT-IDENTIFIER: US 7037499 B1

TITLE: Adjuvant for transcutaneous immunization

DATE-ISSUED: May 2, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Glenn; Gregory M.	Bethesda	MD		US
Alving; Carl R.	Bethesda	MD		US

US-CL-CURRENT: 424/184.1; 424/234.1, 424/236.1, 424/240.1, 424/241.1, 424/261.1, 424/447,
424/449, 424/450

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw Desc	Image
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☐ 8. Document ID: US 6703362 B1

L5: Entry 8 of 11

File: USPT

Mar 9, 2004

US-PAT-NO: 6703362

DOCUMENT-IDENTIFIER: US 6703362 B1

TITLE: Random peptides that bind to gastro-intestinal tract (GIT) transport receptors and related methods

DATE-ISSUED: March 9, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Alvarez; Vernon L.	Morrisville	PA		
O'Mahony; Daniel J.	Dublin			IE
Lambkin; Imelda J.	Dublin			IE
Patterson; Catherine A.	Dublin			IE
Singleton; Judith	Rocky Hill	NJ		
Belinka, Jr.; Benjamin A.	Kendall Park	NJ		
Carter; John M.	Trenton	NJ		
Cagney; Gerard M.	Seattle	WA		

US-CL-CURRENT: 514/12; 424/184.1, 424/185.1, 424/400, 435/69.1, 435/69.2, 436/86, 514/2,
514/21, 530/300, 530/324, 530/350

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw Desc	Image
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☐ 9. Document ID: US 6660498 B1

L5: Entry 9 of 11

File: USPT

Dec 9, 2003

US-PAT-NO: 6660498

DOCUMENT-IDENTIFIER: US 6660498 B1

TITLE: Malaria immunogenic composition

DATE-ISSUED: December 9, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hui; George S. N.	Honolulu	HI		
Pang; Lap-Yin	Kwai Chung			HK
Ho; Walter K. K.	Taipo			HK

US-CL-CURRENT: [435/69.1](#); [435/69.3](#), [530/412](#), [530/413](#), [530/414](#), [530/415](#), [530/416](#), [530/417](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw Desc	Image
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☐ 10. Document ID: US 6495139 B2

L5: Entry 10 of 11

File: USPT

Dec 17, 2002

US-PAT-NO: 6495139

DOCUMENT-IDENTIFIER: US 6495139 B2

**** See image for Certificate of Correction ****

TITLE: Identification and characterization of novel pneumococcal choline binding protein, CBPG, and diagnostic and therapeutic uses thereof

DATE-ISSUED: December 17, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tuomanen; Elaine I.	Germantown	TN		
Gosink; Khoosheh	Cordova	TN		
Masure; Robert	Germantown	TN		

US-CL-CURRENT: [424/190.1](#); [424/184.1](#), [424/185.1](#), [424/244.1](#), [530/300](#), [530/324](#), [530/350](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw Desc	Image
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☐ **1:** Hile DD, Kandziora F, Lewandrowski KU, Doherty SA, Kowaleski MP, Trantolo DJ. Related Articles, Links

A poly(propylene glycol-co-fumaric acid) based bone graft extender for lumbar spinal fusion: in vivo assessment in a rabbit model.
Eur Spine J. 2006 Jun;15(6):936-43. Epub 2005 Aug 13.
PMID: 16133085 [PubMed - in process]

☐ **2:** Hile DD, Kowaleski MP, Doherty SA, Lewandrowski KU, Trantolo DJ. Related Articles, Links

An injectable porous poly(propylene glycol-co-fumaric acid) bone repair material as an adjunct for intramedullary fixation.
Biomed Mater Eng. 2005;15(3):219-27.
PMID: 15912002 [PubMed - indexed for MEDLINE]

☐ **3:** Bryan DJ, Tang JB, Doherty SA, Hile DD, Trantolo DJ, Wise DL, Summerhayes IC. Related Articles, Links

Enhanced peripheral nerve regeneration through a poled bioresorbable poly(lactic-co-glycolic acid) guidance channel.
J Neural Eng. 2004 Jun;1(2):91-8. Epub 2004 Jun 14.
PMID: 15876627 [PubMed - indexed for MEDLINE]

☐ **4:** Hile DD, Sonis ST, Doherty SA, Tian X, Zhang Q, Jee WS, Trantolo DJ. Related Articles, Links

Dimensional stability of the alveolar ridge after implantation of a bioabsorbable bone graft substitute: a radiographic and histomorphometric study in rats.
J Oral Implantol. 2005;31(2):68-76.
PMID: 15871525 [PubMed - indexed for MEDLINE]

☐ **5:** Hile DD, Doherty SA, Trantolo DJ. Related Articles, Links









Prediction of resorption rates for composite polylactide/hydroxylapatite internal fixation devices based on initial degradation profiles.
J Biomed Mater Res B Appl Biomater. 2004 Oct 15;71(1):201-5.
PMID: 15368246 [PubMed - indexed for MEDLINE]

☐ **6:** Hile DD, Kirker-Head C, Doherty SA, Kowaleski MP, McCool J, Wise DL, Trantolo DJ. Related Articles, Links

Mechanical evaluation of a porous bone graft substitute based on poly(propylene glycol-co-fumaric acid).
J Biomed Mater Res B Appl Biomater. 2003 Jul 15;66(1):311-7.
PMID: 12808589 [PubMed - indexed for MEDLINE]

☐ **7:** Lewandrowski KU, Bondre SP, Wise DL, Trantolo DJ. Related Articles, Links

Enhanced bioactivity of a poly(propylene fumarate) bone graft substitute by augmentation with nano-hydroxyapatite.
Biomed Mater Eng. 2003;13(2):115-24.
PMID: 12775902 [PubMed - indexed for MEDLINE]

- ☐ **8:** [Trantolo DJ, Sonis ST, Thompson BM, Wise DL, Lewandrowski KU, Hile DD.](#) [Related Articles](#), [Links](#)
 **Evaluation of a porous, biodegradable biopolymer scaffold for mandibular reconstruction.**
 Int J Oral Maxillofac Implants. 2003 Mar-Apr;18(2):182-8.
 PMID: 12705295 [PubMed - indexed for MEDLINE]
- ☐ **9:** [Lewandrowski KU, Bondre SP, Shea M, Untch CM, Hayes WC, Hile DD, Wise DL, Trantolo DJ.](#) [Related Articles](#), [Links](#)
 **Composite resorbable polymer/hydroxylapatite composite screws for fixation of osteochondral osteotomies.**
 Biomed Mater Eng. 2002;12(4):423-38.
 PMID: 12652036 [PubMed - indexed for MEDLINE]
- ☐ **10:** [Bryan DJ, Tang JB, Holway AH, Rieger-Christ KM, Trantolo DJ, Wise DL, Summerhayes IC.](#) [Related Articles](#), [Links](#)
 **Enhanced peripheral nerve regeneration elicited by cell-mediated events delivered via a bioresorbable PLGA guide.**
 J Reconstr Microsurg. 2003 Feb;19(2):125-34.
 PMID: 12632314 [PubMed - indexed for MEDLINE]
- ☐ **11:** [Lewandrowski KU, Hile DD, Thompson BM, Wise DL, Tomford WW, Trantolo DJ.](#) [Related Articles](#), [Links](#)
 **Quantitative measures of osteoinductivity of a porous poly(propylene fumarate) bone graft extender.**
 Tissue Eng. 2003 Feb;9(1):85-93.
 PMID: 12625957 [PubMed - indexed for MEDLINE]
- ☐ **12:** [Lewandrowski KU, Bondre S, Hile DD, Thompson BM, Wise DL, Tomford WW, Trantolo DJ.](#) [Related Articles](#), [Links](#)
 **Porous poly(propylene fumarate) foam coating of orthotopic cortical bone grafts for improved osteoconduction.**
 Tissue Eng. 2002 Dec;8(6):1017-27.
 PMID: 12542947 [PubMed - indexed for MEDLINE]
- ☐ **13:** [Lewandrowski KU, Bondre SP, Shea M, Untch CM, Hayes WC, Hile DD, Wise DL, Trantolo DJ.](#) [Related Articles](#), [Links](#)
 **Composite poly(lactide)/hydroxylapatite screws for fixation of osteochondral osteotomies. A morphometric, histologic and radiographic study in sheep.**
 J Biomater Sci Polym Ed. 2002;13(11):1241-58.
 PMID: 12518802 [PubMed - indexed for MEDLINE]
- ☐ **14:** [Lewandrowski KU, Bondre SP, Wise DL, Trantolo DJ.](#) [Related Articles](#), [Links](#)
 **Healing of osteochondral osteotomies after fixation with a hydroxyapatite-buffered polylactide. A histomorphometric and radiographic study in rabbits.**
 Biomed Mater Eng. 2002;12(3):259-70.
 PMID: 12446941 [PubMed - indexed for MEDLINE]
- ☐ **15:** [Kandziora F, Pflugmacher R, Kleemann R, Duda G, Wise DL, Trantolo DJ, Lewandrowski KU.](#) [Related Articles](#), [Links](#)
 **Biomechanical analysis of biodegradable interbody fusion cages augmented With poly (propylene glycol-co-fumaric acid).**
 Spine. 2002 Aug 1;27(15):1644-51.
 PMID: 12163726 [PubMed - indexed for MEDLINE]

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☐ **1:** Keskin DS, Wise DL, Hasirci V.

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Pain control via opioid analgesic-local anesthetic loaded IPNs.
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Middle East Technical University, Department of Biological Sciences, Ankara, Turkey.

Control of chronic, severe pain is a difficult and important clinical problem for most patients, especially those with cancer. Although current applications are insufficient for a satisfactory solution to this problem, the rate of disease incidence is increasing worldwide, thus making the problem more apparent. Based on this fact, this study was designed with the ultimate goal of formulating a controlled release system of pain relievers, mainly opioids, for the local treatment of pain to achieve satisfactory, fast, and less side effect-related relief and to provide a better life status for chronic pain patients. Two copolymers of a biodegradable polymer poly(L-lactide-co-glycolide) (PLGA) were used to prepare an implantable rod type drug release system containing either an analgesic or anesthetic type of pain reliever. In vitro drug release kinetics of these systems were studied. It was observed that release from PLGA 85 : 15 was more zero-order than it was from PLGA 50 : 50. A zero-order release rate was obtained for codeine, hydromorphone, and bupivacaine from PLGA (85 : 15) rods. They, however, were released from PLGA (50 : 50) rods with Higuchi kinetics. The drug solubility was also influential on release rate, as shown by the zero-order morphine release from PLGA (50 : 50) rods. Scanning electron micrographs (SEMs) of the monolithic rods revealed erosion of the rods and the removal of drug crystals from the rod structure.

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